Shri. Sanjeev Ashok Jaiswal

OFFICE OF THE CORPORATION OF THE CITY, NAGPUR
(FIRE & EMERGENCY SERVICE)

Chhatrapati Shivaji Maharaj Prashashkiya Bhawan, Mahanagar Palika, Civil lines, Nagpur – 440 001

Ph. No.: 0712-2567777
Fax No.: 0712-2561584

No. FES/ 2813 **/CFO.** **Date:-** 17/11/2017

To,

1) Building Engineer,
N.M.R.D.A.,
Nagpur Improvement Trust,
North Ambazari Marg, Nagpur.

2) Shri. Sanjeev Arun Jaiswal
Plot No. 06, Kh. No. 17,
Mouza – Ghotal Panjri, Nagpur.

FES/2813/CFO
17/11/2017

Sub: **Recommendation in respect of adequate and effective installation of Fire safety measures in the proposed high-rise Residential Building.**

Ref :- **Letter No. Building Engineer/NMRDA/2133, Dated 07.11.2017**

With reference to the above letter along with tentatively approved building plans and application of owner and architect dated 08.11.2017 submitted by Shri. Sanjeev Arun Jaiswal, the recommendation in respect of adequate and effective installation of Fire safety measures are being suggested for Residential building Plot No. 06, Kh. No. 17, Mouza – Ghotal Panjri, Nagpur, the same should be strictly adhered to and complied with.

Breach of any of the recommendations mentioned below shall automatically render this certificate invalid and cancelled and will render the concerned builder / owner occupier / chairperson / secretary of the association of the said high-rise buildings liable for action under provisions of N.M.C. and M.R.T.P. Act, as per D.C.R. 2000 , Maharashtra Fire prevention & Life Safety measures act 2006 and its rules framed there under and may also include cancellation of Building Use Permission and / or shall be liable for disconnection of essential supplied to the buildings.

After these recommendations are fully complied you should apply to the Chief Fire Officer for the compliance certificate. If the concern Station Officer recommends for compliance and base on the report Chief Fire Officer will issue compliance certificate.

This is a mere Fire recommendation to be complied by builder / owner the building can be occupied for trade / business can be run under after obtaining compliance certificate from Fire Brigade Department & obtaining occupier certificate from N.M.C.

The validity of this recommendation certificate is only for **one year** from the date of issue.

Fire fighting apparatus provided in the building should be properly maintained by entering in to Annual maintenance contract for the same with License agencies.

The undersigned reserves the right to make any additional recommendations deemed fit during stage wise inspection in accordance with National Building Code 2005 part IV & Maharashtra fire prevention & Life safety measures act 2006 recommendations.

I} Building Details

Owner Name: Shri. Sanjeev Arun Jaiswal, Plot No. 06, Kh. No. 17, Mouza – Ghotal Panjri, Nagpur.

Total Plot Area	:	1935.025 Sq. mtr.
B. U. Area	:	3004.165 Sq. Mtr.
S.B.U. Area	:	4467.340 Sq. Mtr.
No of Building	:	One
Height of Building	:	18.00 Mtr.
Type of Building	:	Residential Building (A – 4)

Floor	Area Statement Sq. Mtr.	Occupancy
Ground Floor	49.880	1 No. Office, MSEB Meter room, + Parking
1st Floor	590.857	Residential (3 No. 3BHK Flats + 4 No. 2BHK Flats)
2nd Floor	590.857	Residential (3 No. 3BHK Flats + 4 No. 2BHK Flats)
3rd Floor	590.857	Residential (3 No. 3BHK Flats + 4 No. 2BHK Flats)
4th Floor	590.857	Residential (3 No. 3BHK Flats + 4 No. 2BHK Flats)
5th Floor	590.857	Residential (3 No. 3BHK Flats + 4 No. 2BHK Flats)

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No of Floors	:	G+5 Floor
Present Position	:	Open Land.

Margin: - Front: 6.00 mtr., Rear: 5.210 mtr., Side: (i) 6.175 mtr. (ii) 6.00 mtr.

Approach Road – West side 15 mtr. road.

II} Recommendation with respect to Fire Prevention, Fire protection and Life safety Measures.

1. Internal staircase 2 Nos. of width 1.20 mtr. shall be provided.
2. At least 2 No. emergency staircase shall be provided of width 1.20 mtrs. away from main staircase and directly connected to the ground floor (from terrace) Fire escape staircase shall be of enclosed type separated by fire resistance door of two hours.
3. Staircase corridor, exit way, escape route shall be free from any obstruction.
4. No. of Lifts and its capacity: - 2 Nos. of which At least one lift shall be of 8 persons capacity having fire lift provision as per N.B.C. Part IV 2005.
5. The travel distance required for escape during emergency shall be provided,(as per NBC Part IV)
6. Proper roads in the premises shall be provided for easy mobility of the Fire Brigade Appliance & marginal spaces shall be kept free from obstructions all the time. If ramps provided in open marginal spaces, it shall not affect the easy mobility of Fire Engines around the building.
7. Separate duct for electric wiring / cable at each floor shall be provided and the duct shall be sealed at every landing. Electrical duct shall not pass through staircases. The electric circuit shall be safety devices as circuit breaker arrangement that is MCB, ELCB, etc.
8. Stand-by electric generator alternate electric supply to operate fire pump, lift corridor light, emergency light so as to meet NBC norms shall be provided.

Fire Protection arrangement/ Water availability and fire-fighting installations.

9. Overhead water storage tank: - 25,000 liters capacity for fire fighting purpose separate.
10. Fire Pumps at terrace level: - 01 electric pump of capacity 900 Liters/Minutes Discharge.
11. 2 Nos. Wet Riser – cum – down comer (Location shown in plan) :- 100 mm. G.I. pipe "C" type in vertical position connected to water source through pump with hydrant outlet on each floor (0.9 mtrs. above landing) shall be provided as per I.S. specification.
12. 2 Nos. Hose Box with front side glass containing hose pipe of 30 mtrs. length & branch pipe shall be provided on each floor near hydrant connection & shall be as per I.S. specification.
13. 2 Nos. Hose Reel 30 mtrs. length shall be provided on each floor on riser connection with shut off nozzle as per I.S. specification near each landing valve.
14. Two way fire Service Inlet shall be provided.
15. Manual fire alarm system shall be provided on all floors.
16. Air-Conditioning system: If provided with AHU or centralized A/c plant than :- shall conform to part 8 section 3 of NBC. (Note :- Dampers & AC ducts according with good practice 4:12. Utility ducts shaft C1.0 & C1:10 as per NBC. Electric ducts/shaft each floor non combustible)
    1) Automatic fire dampers shall be provided in duct and at the inlet of the fresh air.
    2) A/C/ dampers shall be closed automatically upon operation of a detector/ sprinkler.
    3) Air ducts for every floor shall be separated.
    4) Separate AHU for each floor.
17. **First Aid Fire fighting arrangement shall be provided.**
    A) Ground Floor :- 4 Nos. ABC extinguisher of 6 kg. & 2 Nos. Co2 extinguisher of 4.5 kg. capacity.
    B) 6 Nos. ABC 6 kg. extinguisher should be installed at each floor at appropriate places as per specification.
    C) 1 Nos. DCP 10 kg. & 1 Nos. Co2 Extinguisher and three buckets near the Transformer.
    D) 1 Nos. 4.5 kg. Co2 extinguisher and 1 Nos. DCP extinguisher for Generator and meter box.
    E) 2 No. ABC & 2 Nos. Co2 extinguisher at parking area as per I.S. Specifications.

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18. Refuge area shown in plan shall not be used for any other purpose Balconies / terrace shall not be covered and shall be kept open to serve as refuge area.
19. Lightening arrester shall be provided to this building.
20. Electrical services are to be provided as per Annexure C1. 12 (NBC Part 4.)
21. House – keeping to be maintain as per Annexure C7 (NBC Part 4.)
22. No inflammable liquid shall be stored in this building other than domestic use.
23. No mobile tower to be erected over this building without prior permission from chief Fire Officer, Nagpur Fire & Emergency Service, NMC.
24. All the Fire and Life safety system & the equipment shall be installed by approved license agency & fire fitness certificate shall be submitted to this department twice in the year i.e. in the month of July and January as per the provision of Maharashtra Fire prevention and life safety measures act 2006.
25. Underground water storage tank, rain water harvesting pit in open marginal space and RCC slab on underground ramp shall not cause obstruction and shall be constructed as to bear load of Fire Brigade Vehicle. (45 tons as per N.B.C.)

26. Control panels shall be installed at the ground floor level in the service/core area connected to control room as per NBC, C – 5.
27. Alternate electric supply, capable to run fire pumps, emergency lighting and fire lift shall be provided.
28. Fire drills & evacuation procedures shall be carried out at specified intervals.
29. The plans of this proposed building shall be approved by the competent planning authority according development control Rule and deviation, corrections if any shall be intimated to this department. If this building plan is rejected the same shall also be informed to this department.
30. The internal roads and podium shall be able to withstand the vehicular load of minimum 45 Tones.
31. Fire Evacuation drill shall be carried out at regular interval and record shall be maintained for inspection of fire service department.
32. It shall be ensured that security staff of the building are trained in handling fire fighting equipments & fire fighting.
33. Cautionary boards such as "DANGER","NO SMOKING", "EXIT","FIRE ESCAPE", strategic location to guide the occupants in case of emergency. The signs shall be of florescent type and shall glow in dark.
34. Emergency lights shall be provided in all the staircase & corridors, passageways, Gangways etc.
35. FRLS (Fire retardant Low Smoke) cables shall be used for all installations.
36. All other Fire & Life safety provisions shall be as per N.B.C. Part IV 2005 & D.C.R. 2000 for Nagpur City.
37. Following arrangement of fire protection & prevention measure shall be maintained during the time of construction work.
    i. Dry riser of minimum 100mm dia pipe with hydrant out let on the floors constructed with a fire service inlet.
    ii. Drums filled with water of 2000 capacity with two fire bucket on each floor.
    iii. A water storage tank of minimum 20,000 liter capacity which may be used for other construction purpose also.

On above terms and conditions the fire prevention and protection recommendation certificate is hereby granted. Applicant / owner shall obtained compliance occupancy certificate from this department before taking building in use.

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17/11/2017

Valid up to :- 16/11/2018

NAGPUR MUNICIPAL CORPORATION
FIRE SERVICE DEPARTMENT

17/11/17

Chief Fire Officer
Fire and Emergency Service
Nagpur Mpl. Corporation.

Encl: One copy of Map.
Copy to: 1) Station In-charge,
Narendra Nagar, Fire Station.